**Application No.: 10/583,256** 

**AMENDMENTS TO THE CLAIMS** 

This listing of claims will replace all prior versions and listings of claims in the

application:

**LISTING OF CLAIMS:** 

1. (currently amended): A fluid dispenser device including a fluid dispenser member (10) such

as a pump or a valve, and a dispenser head (20) provided with a dispensing orifice, said fluid

dispenser device being provided with dispensing detector means (30, 31) for detecting

dispensing of a dose of fluid, said detector means (30, 31) being adapted to deliver a signal for

informing the user that a dose of fluid has indeed been dispensed by said pump, said detector

means comprising a detector (30) for detecting the fluid going from said dispenser member to

said dispenser orifice, said fluid dispenser device being characterized in that wherein said

detector (30) comprises a piezoelectric material; and

wherein said detector means are disposed in a sleeve co-operating at one end with said

dispenser member and at the other end with said dispenser head.

2. (original): A device according to claim 1, in which the dispenser member (10) is connected to

the dispensing orifice (40) via an expulsion channel (50), said detector means (30, 31) being

provided in said expulsion channel (50).

3. (previously presented): A device according to claim 1, in which said detector (30) is a

dynamic pressure detector.

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4. (previously presented): A device according to claim 1, in which said detector (30) comprises

polyvinylidene fluoride (PVDF).

5. (currently amended): A device according to claim 1, in which said detector (30) comprises a

PVDF tube operating in a breathing mode.

6. (currently amended): A device according to claim 2, wherein the detector comprises a PVDF

tube and in which said PVDF tube is disposed around a portion of said expulsion channel (50).

7. (withdrawn): A fluid dispenser device including a fluid dispenser member (10) such as a

pump or a valve, and a dispenser head (20) provided with a dispensing orifice, said fluid

dispenser device being provided with dispensing detector means (30, 31) for detecting

dispensing of a dose of fluid, said detector means (30, 31) being adapted to deliver a signal for

informing the user that a dose of fluid has indeed been dispensed by said pump, said detector

means comprising a detector (30) for detecting the fluid going from said dispenser member to

said dispenser orifice, said fluid dispenser device being characterized in that said detector (30)

comprises an optical fiber (30).

8. (withdrawn): A device according to claim 7, in which the dispenser member (10) is

connected to the dispensing orifice (40) via an expulsion channel (50), said detector means (30,

31) being provided in said expulsion channel (50).

AMENDMENT UNDER 37 C.F.R. § 1.111

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9. (withdrawn): A device according to claim 7, in which said optical fiber (30) is associated

with a deformable membrane (31) which deforms when fluid passes through it, such deformation

generating stress in the optical fiber (30).

10. (withdrawn): A device according to claim 9, in which said deformable membrane (31) is

disposed around a portion of said expulsion channel (50).

11. (withdrawn): A device according to claim 9, in which said optical fiber (30) co-operates

with said deformable membrane (31) in a casing (45) secured to the dispenser head (20).

12. (withdrawn): A device according to claim 7, in which said optical fiber (30) is made of

plastic or of glass.

13. (canceled).

14. (currently amended): A device according to claim 13 1, in which said sleeve (40) is made up

of two portions (41, 42) engaged one on and/or around the other, said detector means (30, 31)

being disposed between said two sleeve portions (41, 42).

15. (currently amended): A device according to claim 13.1, in which said sleeve (40) is engaged

around the a valve member of the valve, or around the an actuating rod of the pump dispenser

member.

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16. (previously presented): A device according to claim 1, in which said detector means (30,

31) are connected to electronic means (60) for processing the signals delivered by said detector

means (30, 31).

17. (previously presented): A device according to claim 1, in which said detector means (30,

31) are adapted to increment or to decrement a dose counter.

18. (currently amended): A device according to claim 1, in which said dispenser member is a

pump (10) adapted to dispensing the fluid such that it is so finely sprayed that the spray is

undetectable by the user, and said detector means (30) informs informing the user every time a

dose of fluid is dispensed.

19. (previously presented): A device according to claim 1, in which said dispenser member is a

metering valve (10) operating with a propellant gas.

20. (new): The device according to claim 1, wherein the fluid dispenser member is a pump or a

valve.

21. (new): A fluid dispenser device, comprising:

a fluid dispenser member; and

a dispenser head provided with a dispensing orifice;

the fluid dispenser device comprises a detector that detects a dose of fluid going from the

dispenser member to the dispenser orifice, the detector delivers a signal that informs the user that

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a dose of fluid has been dispensed by the dispenser member, the detector comprising a piezoelectric material; and

wherein the detector is disposed in a sleeve connected at one end with the dispenser member and at the other end with the dispenser head.